

Blast SEQ ID NO:1 versus human genomic

MEGABLAST 1.2.3-Paracel [2001-11-20]

Reference:

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),
"A greedy algorithm for aligning DNA sequences",
J Comput Biol 2000; 7(1-2):203-14.
Database: Homo_sapiens.latestgp.masked.fa
44,521 sequences; 200,768,834,160 total letters

Query= LEX161seqid1
(2115 letters)

Sequences producing significant alignments:
Value

Score E
(bits)

AC016643.6.1.179969
AC008958.7.1.109526
144

734 0.0
520 e-

>AC016643.6.1.179969
Length = 179969

Score = 734 bits (370), Expect = 0.0
Identities = 370/370 (100%)
Strand = Plus / Plus

Query: 957 agatgatttaagccagaagttaaaacccttgggtgaagcagaacgagagtttattttgaa
1016
Sbjct: 60550 agatgatttaagccagaagttaaaacccttgggtgaagcagaacgagagtttattttgaa
60609

Query: 1017 tttgaagaaaaaggaatgcaaagacaggggttttgaatatgatgggaaaatcaatgcctg
1076
Sbjct: 60610 tttgaagaaaaaggaatgcaaagacaggggttttgaatatgatgggaaaatcaatgcctg
60669

Query: 1077 ggatctatattactacatgactcagacagaggaactcaagtattccatagaccaagagtt
1136
Sbjct: 60670 ggatctatattactacatgactcagacagaggaactcaagtattccatagaccaagagtt
60729

Query: 1137 cctcaaggaataacttcccaattgaggtgggtcactgaaggcttgctgaacacctaccagga
1196
Sbjct: 60730 cctcaaggaataacttcccaattgaggtgggtcactgaaggcttgctgaacacctaccagga
60789

Query: 1197 gttgttgggactttcatttgaacaaatgacagatgctcatgtttggaacaagagtgttac.
1256
|||||
Sbjct: 60790 gttgttgggactttcatttgaacaaatgacagatgctcatgtttggaacaagagtgttac
60849

Query: 1257 actttatactgtgaaggataaagctacaggagaagtattgggacagttctatttggacct
1316
|||||
Sbjct: 60850 actttatactgtgaaggataaagctacaggagaagtattgggacagttctatttggacct
60909

Query: 1317 ctatccaagg 1326
|||||
Sbjct: 60910 ctatccaagg 60919

Score = 520 bits (262), Expect = e-144
Identities = 262/262 (100%)
Strand = Plus / Plus

Query: 40 agagttggtggtccaggattttactcagaatgacgtttaggaagagaagtgatgtctcct
99
|||||
Sbjct: 30994 agagttggtggtccaggattttactcagaatgacgtttaggaagagaagtgatgtctcct
31053

Query: 100 cttcaggcaatgtcttcctatactgtggctggcagaaatgttttaagatgggatctttca
159
|||||
Sbjct: 31054 cttcaggcaatgtcttcctatactgtggctggcagaaatgttttaagatgggatctttca
31113

Query: 160 ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
219
|||||
Sbjct: 31114 ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
31173

Query: 220 gctgttggaatgctcggatttgaggaagtaacttacgagaactgtctgcaggcactggca
279
|||||
Sbjct: 31174 gctgttggaatgctcggatttgaggaagtaacttacgagaactgtctgcaggcactggca
31233

Query: 280 gatgtagaagtaaagtatatag 301
|||||
Sbjct: 31234 gatgtagaagtaaagtatatag 31255

Score = 405 bits (204), Expect = e-110

Identities = 204/204 (100%)
Strand = Plus / Plus

Query: 1324 agggaaggaaaatacaatcatgcggcctgcttcggtctccagcctggctgccttctgcct
1383

Sbjct: 64886 agggaaggaaaatacaatcatgcggcctgcttcggtctccagcctggctgccttctgcct
64945

Query: 1384 gatggaagccggatgatggcagtggtgccttcgtggtgaacttctcacagccagtggca
1443

Sbjct: 64946 gatggaagccggatgatggcagtggtgccttcgtggtgaacttctcacagccagtggca
65005

Query: 1444 ggtcgtccctctctcctgagacacgacgaggtgaggacttactttcatgagtttggtcac
1503

Sbjct: 65006 ggtcgtccctctctcctgagacacgacgaggtgaggacttactttcatgagtttggtcac
65065

Query: 1504 gtgatgcatcagatttggtgcacag 1527

Sbjct: 65066 gtgatgcatcagatttggtgcacag 65089

Score = 379 bits (191), Expect = e-102
Identities = 191/191 (100%)
Strand = Plus / Plus

Query: 1526 agactgattttgcacgatttagcggaacaaatgtggaaactgactttgtagaggtgccat
1585

Sbjct: 81947 agactgattttgcacgatttagcggaacaaatgtggaaactgactttgtagaggtgccat
82006

Query: 1586 cgcaaatgcttgaaaattgggtgtgggacgtcgattccctccgaagattgtcaaaacatt
1645

Sbjct: 82007 cgcaaatgcttgaaaattgggtgtgggacgtcgattccctccgaagattgtcaaaacatt
82066

Query: 1646 ataaagatggaagccctattgcagacgatctgcttgaaaaacttggtgcttctaggctgg
1705

Sbjct: 82067 ataaagatggaagccctattgcagacgatctgcttgaaaaacttggtgcttctaggctgg
82126

Query: 1706 tcaacacaggt 1716

Sbjct: 82127 tcaacacaggt 82137

Score = 323 bits (163), Expect = 2e-85
Identities = 163/163 (100%)
Strand = Plus / Plus

Query: 661 ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
720
Sbjct: 53694 ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
53753

Query: 721 attaccttaaaaatatccacactatttcctgtcatgaagaaatggtgtatccctgaaacc
780
Sbjct: 53754 attaccttaaaaatatccacactatttcctgtcatgaagaaatggtgtatccctgaaacc
53813

Query: 781 agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 823
Sbjct: 53814 agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 53856

Score = 301 bits (152), Expect = 8e-79
Identities = 152/152 (100%)
Strand = Plus / Plus

Query: 300 agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgagc
359
Sbjct: 35386 agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgagc
35445

Query: 360 agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
419
Sbjct: 35446 agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
35505

Query: 420 agatatatttgagagaattgttcatttacagg 451
Sbjct: 35506 agatatatttgagagaattgttcatttacagg 35537

Score = 280 bits (141), Expect = 3e-72
Identities = 141/141 (100%)
Strand = Plus / Plus

Query: 1842 aggcacaaatatgccagctacctttggacatttggcagggggatagcatggccaatatta
1901

Sbjct: 84687 aggcacaaatatgccagctaccttttgacatttggcagggggatacggatggccaatatta
84746

Query: 1902 tggatatctttggagtgaagtattttccatggatatgttttacagctgttttaaaaaaga
1961

Sbjct: 84747 tggatatctttggagtgaagtattttccatggatatgttttacagctgttttaaaaaaga
84806

Query: 1962 agggataatgaatccagaggt 1982

Sbjct: 84807 agggataatgaatccagaggt 84827

Score = 270 bits (136), Expect = 3e-69
Identities = 137/138 (99%)
Strand = Plus / Plus

Query: 821 aggaaaacaccataattttgcagcagctactcccactgccaaccaaggtggccaaactac
880

Sbjct: 58207 aggaaaacaccataattttgcagcagctactcccactgccaaccaaggtggccaaactac
58266

Query: 881 tcggttatagcacacatgctgacttcgtccttgaaatgaacactgcaaagagcacaagcc
940

Sbjct: 58267 tcggttatagcacacatgctgacttcgtccttgaaatgaacactgcaaagagcacaagcc
58326

Query: 941 gcgtaacagcytttctag 958

Sbjct: 58327 gcgtaacagcctttctag 58344

Score = 268 bits (135), Expect = 1e-68
Identities = 136/137 (99%)
Strand = Plus / Plus

Query: 1979 aggttggaatgaaatacagaaacctaatacctgaaacctgggggatctctggacggcatgg
2038

Sbjct: 95214 aggttggaatgaaatacagaaacctaatacctgaaacctgggggatctctggacggcatgg
95273

Query: 2039 acatgctccacaatttcttgaaacgtgagccaaacaaaaagcggttcctaatagtagtagag
2098

Sbjct: 95274 acatgctccacaatttcttgaaacgtgagccaaacaaaaagcggttcctaatagtagtagag
95333

Query: 2099 gcctgcatgctycgtga 2115
|||||||
Sbjct: 95334 gcctgcatgctccgtga 95350

Score = 262 bits (132), Expect = 7e-67
Identities = 132/132 (100%)
Strand = Plus / Plus

Query: 1713 aggtcttctgaccctgcgccagattgttttgagcaaagttgatcagtctcttcataccea
1772
|||||||
Sbjct: 82469 aggtcttctgaccctgcgccagattgttttgagcaaagttgatcagtctcttcataccea
82528

Query: 1773 cacatcgctggatgctgcaagtgaatatgccaaatactgctcagaaatattaggagttgc
1832
|||||||
Sbjct: 82529 cacatcgctggatgctgcaagtgaatatgccaaatactgctcagaaatattaggagttgc
82588

Query: 1833 agctactccagg 1844
|||||||
Sbjct: 82589 agctactccagg 82600

Score = 222 bits (112), Expect = 6e-55
Identities = 116/117 (99%), Gaps = 1/117 (0%)
Strand = Plus / Plus

Query: 443 atttacaggaaacctgtgatctggggaagataaaacctgaggccagacgatacttgga
502
|||||||
Sbjct: 49854 attt-caggaaacctgtgatctggggaagataaaacctgaggccagacgatacttgga
49912

Query: 503 agtcaattaaaatggggaaaagaaatgggctccatcttctgaacaagtacagaatg 559
|||||||
Sbjct: 49913 agtcaattaaaatggggaaaagaaatgggctccatcttctgaacaagtacagaatg
49969

Score = 208 bits (105), Expect = 1e-50
Identities = 105/105 (100%)
Strand = Plus / Plus

Query: 559 gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
618
|||||||
Sbjct: 52613 gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
52672

Query: 619 aatgaggatgataccttccttgatattttccaaggctgaacttgg 663
|||||
Sbjct: 52673 aatgaggatgataccttccttgatattttccaaggctgaacttgg 52717

>AC008958.7.1.109526
Length = 109526

Score = 520 bits (262), Expect = e-144
Identities = 262/262 (100%)
Strand = Plus / Minus

Query: 40 agagttggtggttccaggattttactcagaatgacgttaggaagagaagtgatgtctcct
99
|||||
Sbjct: 24199 agagttggtggttccaggattttactcagaatgacgttaggaagagaagtgatgtctcct
24140

Query: 100 cttcaggcaatgtcttcctatactgtggctggcagaaatgttttaagatgggatctttca
159
|||||
Sbjct: 24139 cttcaggcaatgtcttcctatactgtggctggcagaaatgttttaagatgggatctttca
24080

Query: 160 ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
219
|||||
Sbjct: 24079 ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
24020

Query: 220 gctggtggaatgctcggatttgaggaagtaacttacgagaactgtctgcaggcactggca
279
|||||
Sbjct: 24019 gctggtggaatgctcggatttgaggaagtaacttacgagaactgtctgcaggcactggca
23960

Query: 280 gatgtagaagtaaagtatatag 301
|||||
Sbjct: 23959 gatgtagaagtaaagtatatag 23938

Score = 323 bits (163), Expect = 2e-85
Identities = 163/163 (100%)
Strand = Plus / Minus

Query: 661 ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
720
|||||
Sbjct: 1504 ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
1445

Query: 721 attaccttaaaatatccacactatttcctgtcatgaagaaatgttgatccctgaaacc
780
|||||
Sbjct: 1444 attaccttaaaatatccacactatttcctgtcatgaagaaatgttgatccctgaaacc
1385

Query: 781 agaagaaggatggaaatggcttttaatacaagggtgcaaagagg 823
|||||
Sbjct: 1384 agaagaaggatggaaatggcttttaatacaagggtgcaaagagg 1342

Score = 301 bits (152), Expect = 8e-79
Identities = 152/152 (100%)
Strand = Plus / Minus

Query: 300 agtggaaaggaccatgctagactttcccagcatgtatcctctgacaaagaagtacgagc
359
|||||
Sbjct: 19806 agtggaaaggaccatgctagactttcccagcatgtatcctctgacaaagaagtacgagc
19747

Query: 360 agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
419
|||||
Sbjct: 19746 agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
19687

Query: 420 agatatatttgagagaattgttcatttacagg 451
|||||
Sbjct: 19686 agatatatttgagagaattgttcatttacagg 19655

Score = 222 bits (112), Expect = 6e-55
Identities = 116/117 (99%), Gaps = 1/117 (0%)
Strand = Plus / Minus

Query: 443 atttacaggaaacctgtgatctggggaagataaaacctgaggccagacgataacttgaaa
502
|||||
Sbjct: 5344 attt-caggaaacctgtgatctggggaagataaaacctgaggccagacgataacttgaaa
5286

Query: 503 agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg 559
|||||
Sbjct: 5285 agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg 5229

Score = 208 bits (105), Expect = 1e-50
Identities = 105/105 (100%)
Strand = Plus / Minus

Query: 559 gaaatcaaataaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
618

|||||
Sbjct: 2585 gaaatcaaataaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
2526

Query: 619 aatgaggatgataccttccttgatattttccaaggctgaacttggt 663

|||||
Sbjct: 2525 aatgaggatgataccttccttgatattttccaaggctgaacttggt 2481

Score = 81.8 bits (41), Expect = 2e-12
Identities = 41/41 (100%)
Strand = Plus / Minus

Query: 1 atgatcgcccggtgccttttggctgtgcgaagcctccgcag 41

|||||
Sbjct: 60390 atgatcgcccggtgccttttggctgtgcgaagcctccgcag 60350